

Existence of a monopole

S/056/63/044/001/031/067

B104/B144

is a vector, it is not conserved. The non-conservation of the parity with electromagnetic interactions can be estimated in another way according to M.Sachs (Ann.of Phys., 6, 244, 1959). This allows of indicating an upper limit of probability for the occurrence of monopoles in nucleon-nucleon collisions and also in other electromagnetic interaction processes. It is shown according to M.Sachs that effects from interaction of monopoles with the substance are negligibly small. If monopoles occurred with a traceable probability, $J^{(m)}$ would be a pseudovector. It is still not clear why no monopoles occur in nucleon-nucleon collisions with a probability of more than 10^{-34} cm^2 per nucleon.

ASSOCIATION: Institut fiziki Akademii nauk Belorusskoy SSR (Institute of Physics of the Academy of Sciences Belorusskaya SSR)

SUBMITTED: June 2, 1962

Card 2/2

FAMLETH, John

CONFIDENTIAL INFORMATION

Manipulated in electronic system and made available in 2000. Original date 03/03/1982
Date 17 10, 1984.

1. Institut für Politikwissenschaft und Politische Arbeitstechnik der
U.S. Weltmarktforschung

VAYNSHTEYN, F.M.; TOMILENKO, Ye.I.; SHILOV, Ye.A.

Kinetics of iodination of aromatic amino compounds and *m*-phenol-sulfonate by iodine in aqueous solutions. Ukr. khim. zhur. 30 no.8: 831-838 '64. (MIRA 17:11)

1. Institut organicheskoy khimii AN UkrSSR.

VAYNSHTEYN, F.M.; DEGURKO, T.A.; TOMILENKO, Ye.I.; SHILOV, Ye.A.

Role of anion acceptors in the mechanism of nucleophilic
substitution in aromatic systems. Ukr.khim.zhur. 31
no.5:518-521 '65.

(MIRA 18:12)

1. Institut organicheskoy khimii AN UkrSSR. Submitted Febr. 5,
1965.

VAYNSHTEYN, F.M.; TOMILENKO, Ye.I.; SHILOV, Ye.A.

Kinetics and the mechanism of aniline iodination with iodine
in aqueous solutions. Kin. i kat. 4 no.3:357-366 My-Je '63.
(MIRA 16:7)

1. Institut organicheskoy khimii AN UkrSSR.
(Aniline) (Iodination)

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APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756220004-4"

TOMILIN, A., pilot

If autorotation arose. Grazhd. av. 22 no.1:23 Ja '65.
(MIRA 18:11)
1. Gosudarstvennyy nauchno-issledovatel'skiy institut
Grazhdanskogo vozdushnogo flota.

ACC NR: AP6033519

SOURCE CODE: UR/0413/66/000/018/0154/0155

INVENTOR: Khabarov, A. V.; Kozlov, V. S.; Morozov, B. A.; Myrssov, V. K.; Shevchenko, B. P.; Tomilin, A. A.; Votyakov, I. A.; Surkov, A. I.

ORG: None

TITLE: A hydraulic press with weight distribution on the base components. Class 58, No. 186283 [announced by the Kolonna Heavy Machine Tool Building Plant (Kolomenskiy zavod tyazhelogo stankostroyeniya)]

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 154-155

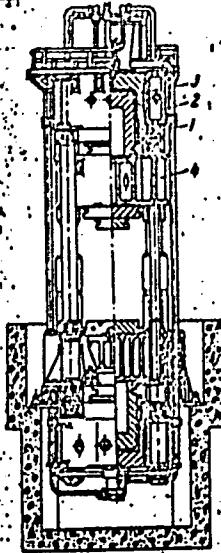
TOPIC TAGS: hydraulic equipment, metal forming press

ABSTRACT: This Author's Certificate introduces a hydraulic press with weight distribution for the base components. The installation contains a stand in the form of columns connected by crossbeams, a movable frame of similar construction located inside the stand, a lower working cylinder mounted in the lower crossbeam of the movable frame, and an upper working cylinder. Misalignment of the press under the effect of eccentric loads is prevented by mounting the upper working cylinder in the upper crossbeam of the stand with rigid connection of the plunger for this cylinder to the upper crossbeam of the movable frame.

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UDC: 621.226

ACC NR: AP6033519



1--upper working cylinder; 2--upper crossbeam of the stand;
3--plunger; 4--upper crossbeam of the movable frame

SUB CODE: 13/ SUBM DATE: 06Aug65

Card 2/2

Age of whale determined from baleen apparatus. A. G. Tappan (Copeia, read. Acad. Sci. U. S. S. R., 1844, 20, 440-443).—The age of whale may be determined by counting the annual ridges, due to seasonal variations in feeding, on the baleen plates. A portion of the plate, equal to 1 year's growth is concealed below the gum. The ridge most well developed on the highest plates of the set. The plates are subject to attrition at apex and lateral edges and estimations are suitable, only, up to the following ages: *Balaena mysticetus* 19, *Eubalaena glacialis* 10, *F. glacialis richardsoni* 14, *Balaenoptera musculus* 7, *B. acutorostrata* 5, and *Rhachianectes glacialis* 3 years. M. E. N.

ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756220004-4"

SUDAKOV, S.G.; ALEKSANDROV, T.F.; YELISEYEV, S.V.; IZOTOV, A.A.; KUZ'MIN, B.S.; LARIN, D.A.; LITVINOV, B.A.; MOLODENSKIY, M.S.; POVALYAYEV, P.I.; RYTOV, A.V.; TIMOFEEV, A.A.; TOMILIN, A.V.; SHISHKIN, V.N. KUZ'MIN, G.M., tekhnicheskij redaktev.

[Triangulation on the 1,2,3 and 4 order] Instruktsiia po triangulatsii 1,2,3 i 4 klassov. Moskva, Izd-vo geodesicheskoi lit-ry, 1956. 307 p. (MLRA 9:5)

I. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodesii i kartografii. (Triangulation)

SUDAKOV, S.G.; ALEKSANDROV, T.F.; BULANOV, A.I.; DURNEV, A.I.;
YELISEYEV, S.V.; ZAKATOV, P.S.; IZOTOV, A.A.; KARLOV, G.M.;
KUZ'MIN, B.S.; KUKUSHKIN, A.D.; KOLUPAYEV, A.P.; KUZLOVA, Ye.A.;
LARIN, B.A.; LARIN, D.A.; LARIN, B.A.; LITVINOV, B.A.; MAZAYEV,
A.V.; PELLINEN, L.P.; PETROV, A.I.; SOLOV'YEV, A.I.; TOMILIN, A.F.;
URALOV, S.S.; USPENSKIY, M.S.; FOMIN, M.P.; SHISHKIN, V.N.; SHCHEGLOV,
A.P.; SUDAKOV, S.G., otv. red.; KOMARCOVA, L.M., red. izd-va; SUNGUROV,
V.S., tekhn. red.

[Instruction concerning the building-up of a state geodetic network
in the U.S.S.R.] Instruktsiya o postroenii gosudarstvennoi geodezi-
cheskoi seti Soiuza SSR; obiazatel'na dlia vsekh vedomstv i uch-
rezhdenii, proizvodishchikh gosudarstvennye geodezicheskie seti.
Moskva, Izd-vo geodez. lit-ry, 1961. 459 p. (MIRA 15:6)

1. Russia (1923- U.S.S.R.) Glavnaya upravleniya geodezii i karto-
grafii.

(Geodesy)

TOMILIN, A. G.

PA 58167

USSR/Medicine - Anatomy
Medicine - Animals

Jan 1947

"New Outlook on Cetaceous Gushers," A. G. Tomilin,
3 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LV, No 1

Describes detailed research into composition of
gushers produced by whales and into the means by
which whale expels gusher. Submitted by Academi-
cian I. I. Shmal'gauzen, 23 Jun 1946.

58167

RECORDED 100% 100%

"The Biology and Physiology of the *Dolphinus Delphis L.*," Dok. AM, 56, No. 2, 1947

Tomilin, A. G.

Doc Biolog Sci

Dissertation: "Problems of the Ecology of Cetacean Animals."

28 February 49

Moscow Fur (and Pelt) Institute

SO Vecheryaya Mos'va
Sum 71

TOMILIN, A.G.

Systematic interrelations between northern and southern rorquals.
Biul. MOIP Otd. boil. 58 no. 6:3-6 '53. (MLRA 7:1)
(Whales)

TOMILIN, A.G.

Adaptable types of the order Cetacea (ecological classification of Cetacea). Zool.zhur. 33 no.3:677-692 My-Je '54. (MLRA 7:7)

1. Moskovskiy pushno-mekhovoy institut.
(Cetacea)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756220004-4

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756220004-4"

TOMILIN, Avenir Grigor'yevich, GEPTNER, V.G., professor, otvetstvennyy redaktor; MAKAROVA, B.M., redaktor izdatel'stva; KISELEVA, A.A., tekhnicheskiy redaktor.

[Animals of the U.S.S.R. and adjacent countries] Zveri SSSR i pribilezhashchikh stran. Moskva. Vol.9. Tomilin, A.G. [Cetaceans] Kitobraznye. 1957. 756 p. (MLRA 10:6)

1. Akademiya nauk SSSR.
(Catacea)

SOV/26-58-1-22/36

AUTHOR: Tomilin, A.G., Doctor of Biological Sciences

TITLE: Peculiarities in the Behavior of Cetaceans (Osobennosti povedeniya kitoobraznykh)

PERIODICAL: Priroda, 1958, Nr 1, pp 110-111 (USSR)

ABSTRACT: Experiments with common dolphins permitted the establishment of two reflexes for the cetaceans, which maintain breathing safety under any weather conditions for the active and sleeping phases. One of the reflexes leads to the opening of the blowhole and a very brief expiration, and air intake, not depending on the respiration interval, as soon as the animal gets to the water surface. The other reflex is connected with the movement of the tail which is put upwards shortly before or at the beginning of the expiration, in order to have the nostril take in the highest level above the water surface when the air is breathed in. These unconditioned reflexes that are also found among the new-born are the most important adaption to life in water. The remarkable fact that cetaceans assist weak or wounded and new-born or even still-born individuals in the respiration act by dragging them to the water surface when their behavior points at approaching suffocation

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- Peculiarities in the Behavior of Cetaceans

SOV/26-58-1-22/36

seems to be connected with these reflexes.
There is 1 photo and 11 references, 3 of which are Soviet,
1 Danish and 7 English.

ASSOCIATION: Institut nauchnoy informatsii AN SSSR, Moskva (Institute of
Scientific Information of the AS USSR, Moscow)

Card 2/2

11/19/86 11:45
TOMILIN, A.O.

Some data on thermoregulation in the common dormouse (*Muscardinus avellanarius*); changes in the nature of respiration and body temperature during hibernation and the period of activity [with summary in English]. Zool. zhur. 37 no.1:120-130 Ja '58.

1. Gosudarstvennyy pedagogicheskiy institut im. V.I. Lenina, Moskva.
(Dormouse) (Animal heat) (Hibernation) (MIRA 11:2)

TOMILIN, A.G., doktor biol.nauk

Sesquicentennial of the birth of Charles Darwin. Zhivotnovodstvo
21 no.3:60-63 Mr 159. (MIRA 12:4)
(Darwin, Charles Robert, 1809-1882)

TOMILIN, A.G.

Migrations, geographical races, thermoregulation, and the effect
of environmental temperature on the distribution of cetaceans.
Migr. zhiv. no. 2:3-26 '60. (MIRA 13:12)

1. Vsesoyuznyy sel'skokhozyaystvennyy institut zaochnogo obrazovaniya,
g. Balashikha. (Cetacea) (Body temperature--Regulation) (Animal migration)

114, 12, P, SR

TOMILIN, A.G.

Some current problems in the biological study of cetaceans.
Trudy sov. Ikht. kom. no.12:40-49 '61. (MIRA 14:6)

1. Vsesoyuznyy sel'skokhozyaystvennyy institut zaochnogo
obrazovaniya.

(Cetacea) *1.1.25*

TOMILIN, A.G., prof.; GIL'MAN, Ye.A., red.

[System of the animal world (characteristics of basic groups)]
Sistema zhivotnogo mira (kharakteristika osnovnykh grupp); ucheb-
noe posobie dlja studentov zootehnicheskogo i agronomicheskogo
fakul'tetov. Moskva, Vses.sel'khoz.in-t zaochnogo obrazovaniia,
1962. 34 p. (MIRA 16:2)

(Zoology)

TOMILIN, Avenir Grigor'yevich, prof.; PAVLOVSKIY, Ye.N., akademik, glavnnyy red.; CHAPSKIY, K.K., red.; BYKHOVSKIY, B.Ye., red.; GROMOV, I.M., red.; MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.; STRELKOV, A.A., red.; SHTAKEL'BERG, A.A., red.; MAKAROV, B.M., red.izd-va; ROMANOV, G.M., tekhn.red.; NOVICHKOVA, N.D., tekhn.red.

[Cetaceans of the seas of the U.S.S.R.] Kitoobraznye fauny morei SSSR. Moskva, Izd-vo Akad.nauk SSSR, 1962. 211 p. (Opredeliteli po faune SSSR, no.79). (MIRA 15:8)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Cetacea)

TOMILIN, A.G., doktor biolog.nauk

Bionics and the cetaceans. Priroda 51 no.10:101-103 0 '62.
(MIRA 15:10)
1. Vsesoyuznyy sel'skokhozyaystvennyy institut zaochnogo obrazo-
vaniya, g. Balashikha, Moskovskaya obl.
(Cetacea)

TOMILIN, A.G.

Adaptation of cetaceans to swift ~~swimming~~ and the possibility of
making use of this adaptation for the purpose of shipbuilding.
Biul. MDIP. Otd. biol. 67 no. 5:10-18 S-0 '62. (MIRA 15:10)
(CETACEA) (SHIPBUILDING—RESEARCH)

TOMILIN, A.G., prof. (Balashikha, Moskovskaya obl.)

The "Intelligentsia" of marine depths; behavior secrets of dolphins
and whales. Priroda 52 no.7:70-77 Jl '63. (MIRA 16:8)
(Cetacea)

IVANOVENKO, A.L. (Vladivostok); TSELIN, A.G., prof. (Balashikha,
Moskovskaya oblast)

Can dolphins speak? Priroda 54 no.4:106-107 Ap '65.
(MIRA 18:5)

TOMILIN, A.G., prof.

Voice and echolocation in Pinnipedia. Priroda 54 no.8:20-22
Ag '65. (MIRA 18:2)

1. Vsesoyuznyy sel'skokhozyaystvennyy institut zaochnogo obrazovaniya, Balashikha, Moskovskaya oblast'.

YEFREMOV, I.S., doktor tekhn. nauk; REKITAR, R.A., inzh.;
ROZENBERG, S.V., kand. ekon. nauk; BLATNOV, M.D., kand.
tekhn. nauk; VIL'KONETSKIY, M.S., inzh.; TOMILIN, A.I., inzh.;
POPELYASH, V.N., inzh.; ZAGAYNOV, N.A., kand. tekhn. nauk;
FINKEL'SHTEYN, B.S., inzh.; MARINOV, I.A., inzh.; ISTRATOV, V.P.,
inzh.; MARGOLIN, I.S., inzh.; ENGEL'S, G.G., inzh.; ANTONOV,
V.A., inzh.; SOKOLOV, V.D., inzh.; KLESHCHINSKIY, B.K., inzh.;
IL'INSKIY, A.I., retsenzent; PAPKOV, N.G., retsenzent; SHIRNOV,
G.M., retsenzent; SHPOLIANSKIY, M.N., otv. red. toma; VOLOCHNEV,
V.N., red.; TROFIMOV, A.N., red.; RACHEVSKAYA, M.I., red. izd-va;
LELYUKHIN, A.A., tekhn. red.

[Technical manual on city electric transportation in three
volumes] Tekhnicheskii spravochnik po gorodskomu elektro-
transportu v trekh tomakh. Redkollegiia: V.N.Volochnev, A.N.
Trofimov, M.N.Shpolianskii. Moskva, Izd-vo M-va kommun. khoz.
RSFSR. Vbl.1. [City electric transportation (general part)]
Gorodskoi elektricheskii transport (obshchaya chast'). Otv.
red. toma M.N.Shpolianskii. 1961. 726 p. (MIRA 15:4)
(Streetcars) (Trolley buses)

TOMILIN, A.I.

Investigating the passenger flow in surface transportation. Gor.
khoz. Mosk. 34 no.7:17-19 Jl '60. (MIRA 13:7)

1. Glavnyy inzhener sluzhby dvizheniya Upravleniya passazhirskogo
transporta Mosgorispolkoma.
(Moscow--Traffic surveys)

SHALAYEV, M.I., kand.med.nauk (Perm', poselok P.D.K., ul. Pesochnaya, d.12);
KHOLKIN, A.A.; TOMILIN, A.K.; ONOSOV, A.G.

Closed lesions of the liver according to six-year data of some
hospitals in the Kizel coal basin. Klin.khir. no.9:72 S '62.
(MIRA 16:5)
(KIZEL BASIN--LIVER--WOUNDS AND INJURIES)

MOSKALENKO, S.I.; GABOVICH, M.S.; BACHINSKIY, Yu.V.; TOMILIN, A.V.;
MEDVEDEV, P.M.; LOMANOVA, M.M.; GOLOVKOV, P.D.; GAYDUKOV, G.I.;
ALEYNIKOV, V.V.; STEMIN, N.D.; MIRONOVA, V.V.; BULAVINTSEVA,
Ye.S.; TSVETSIANSKIY, S.V.; MECHEPURMY, P.; KOBZAR', M.K.;
ROZHNOVA, Ye.S.; PELETMINSKIY, V.N.; GORDEYCHUK, V.K.; SHMERIGO,
V.F.; KISLYUK, N.

Fifty years in the sugar industry. Sakh.prom. 33 no.2:18
F '59. (MIRA 12:3)
(Shtepan, Georgii Viacheslavovich, 1888-)

TOMILIN, B.A.

New species of Ascomycetes from the Far East. Bot. mat. Otd.
spor. rast. 14:187-188 Ja'61. (MIRA 17:2)

TOMILIN, B.A.

Rust fungi (Uredinales) of Kursk Province. Bot. zhur. 44 no. 7:1010-1014
Jl '59. (MIRA 12:12)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR, Leningrad.
(Kursk Province--Rusts (Fungi))

TOMILIN, B.A.

Fungi of Transbaikalia. Bot. mat. Otd. spor. rast. 16:133-150
'63. (MIRA 16:10)

TOMILIN, G.

Increase membership in the ranks of the All-Union Volunteer Society
for Assistance to the Army, Air Force, and Navy. Voen. znan. 36 no.1:
15-16 Ja '60. (MIRA 12:12)

1. Starshiy inspektor TSentral'nogo Komiteta Dobrovol'nogo obshchesh-
stva sodeystviya armii, aviatsii i flotu SSSR.
(Military education)

GOL'TSEV, V.P.; DZNELADZE, Zh.I.; TOMILIN, I.A.

Approximate calculation of the interaction of interstitial
impurities with alloying elements during the sintering of
molybdenum. Sbor. trud. TSNIICHM no.43:145-150 '65.
(MIRA 18:10)

TOMILIN, I.A., kand.tekhn.nauk; SHVARTSMAN, L.A., doktor khim.nauk

Effect of silica, calcium oxide and sodium oxide on the distribution of sulfur and phosphorus between iron and iron slag.
Probl.metalloved.i fiz.met. no.6:199-220 '59. (MIRA 12:8)
(Iron--Metallurgy) (Slag) (Thermochemistry)

18(0) PHASE I BOOK EXPLOITATION Sov/2125

Tehnicheskoye i zashchitnoe isledovaniye i fiziki metallov
Institut Metallovedeniya i Fiziki Metallov
Problemy metallovedeniya i fiziki metallov (Problems in Physical
Metallurgy and Metallophysics) Moscow, Metallurgizdat, 1959.
500 p. (Series: Itst. Sbornik Trudov, 6) Kratkaia Slip inserted.
3,600 copies printed.

Additional Sponsoring Agency: USSR. Gosudarstvennaya Planova Komissiya.

Ed. of Publishing House: Ye. M. Berlin; Tech. Ed.: P. U. Islen'ev; Sov. of
Editorial Board: D. S. Komenetskaya, B. Ya. Irmov [sep. Ed.];
Ye. Z. Spector, L. M. Urevskiy, L. A. Shvartsman, and V. V. Mal'kin.

PURPOSE: This book is intended for metallurgists, metallurgical
engineers, and specialists in the physics of metals.

COVERAGE: The papers in this collection present the results of
investigations conducted between 1954 and 1956. Subjects

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covered include crystallization of metals, physical methods of
influencing the processes of crystallization, problems in the
physical chemistry of metallurgical processes, problems in the
new methods and equipment for investigating metals, and
production control. References follow each article.

TABLE OF CONTENTS:

PART II. PHYSICAL CHEMISTRY OF METALLURGICAL PROCESSES

Tsvetkov, L. A., Candidate of Technical Sciences, and L. A. Shvarts-
man, Doctor of Chemical Sciences. Effect of Silica, Calcium
Oxide, and Sodium Oxide on the Distribution of Silica, Calcium
Phosphorus in Iron and Ferruginous Slag

It was found that the heat of transfer of sulfur from iron
decreased in the system FeO-SiO₂, saturated with silica, in
decreasing the addition of CaO to the slag. At a concentration
of about 20 percent CaO the heat of reaction amounts
to some 13,000 cal./atom, which coincides with the heat
of transfer of sulfur from iron to ferruginous slag. Further,
on increasing the content of CaO in the slag, a certain
increase in entropy takes place. An overall result of these
processes is a reduction in the value of the coefficients of
sulfur distribution in comparison with acid slag not containing
CaO. The introduction of Na₂O into the slag causes the same
phenomenon to take place, but in a greater degree. These
facts may be explained by the specific interaction of ions in
the acid fusion. The free energy of solution of solid iron
sulfide in ferruginous and ferruginous-silicate slag was
calculated. It was shown that the heat of transfer of
phosphorus from iron to acid
slag in the case of ferruginous slag. The
coefficients of diffusion of phosphorus, however, are con-
siderably less in the first case than in the second. This can
be explained by the presence of a structure of silicate
polymers in the acid slag. Additions of CaO and Na₂O to acid
slag increase the heat of dephosphorization, and
at the same time the values of the coefficients of distribution
rise.

Kozhernikov, I. Yu., Candidate of Technical Sciences, and
L. A. Shvartsman. Effect of Oxides of Alkali Earth Metals on
the Equilibrium of the Dephosphorization Reaction of Iron

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Card 9/18

Tchernykh, A. I.

TOULIN, A. I.

Reduce the overloading of public transportation by staggering the times for the beginning of work at enterprises and institutions.
Gor.khoz.Mosk. 31 no.7:34 Jl '57. (MIRA 10:9)

1. Nachal'nik sluzhby dvizheniya Tramvayno-trolleybusnogo upravleniya Mosgorskpolkoma.
(Moscow--Traffic engineering)

TOMILIN, A. I.

28008. TOMILIN, A. I. -- K patogenezu gemotoraksa. (Sud'ba krovi izlivsheysya v plevral'nyyu polost'). Yubileynyy sbornik chirurg. Rabot. Posvyashch. Prof. Shilovtsevu. Kuybyshev, 1949, S. 340-58.

SO: Letopis' Zhurnal'nykh Statey. Vol. 37, 1949.

TOMILIN, A.V.

Manufacturing cost of sugar and means for lowering it. Sakh. prom.
32 no.5:58-61 My '58. (MIRA 11:6)

1. Kurskiy sakhsveklotrest.
(Sugar industry--Costs)

YUMILIN, B. A.

"Micromycetes of the Kursk District."

dissertation defended for the degree of Candidate of Biological Sciences at
the Inst. of Botanics im V. L. Komarov.

Defense of Dissertation (Jan-Jul 1957)
Sect. of Biological Sciences
Vest. AN SSSR, 1957, v. 27, No. 12, pp. 115-117

TOMILIN, B.A.

Fungi of some typical phytocoenoses of the Amur subtaiga.
Bot. zhur. 47 no.8:1116-1125 Ag '62. (MIRA 15:10)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Amur Province—Fungi) (Amur Province—Forest ecology)

TOMILIN, R.A.

Environmental factors influencing the distribution of fungi
among plant communities. Bot. zhur. 49 no.2:230-239 F '64.
(MIRA 1736)

1. Botanicheskiy institut imeni V.L. Komarova Akademii
nauk SSSR, Leningrad.

TOMILIN, B.A.

A review go the micromycetes of Kursk Province. Bot. zhur. 42 no. 2: 297-
300 1957. (MLRA 10:3)
(Kursk Province--Fungi, Phytopathogenic)

TOMILIN, B. A. Cand Biol Sci - (diss) "Micromycetes of the Kurskaya Oblast." Len, 1957. 16 pp 22 cm. (Academy of Sciences USSR, Botanical Inst im V. I. Komarin), 100 copies (KL, 17-57, 96)

- 24 -

TOMILIN, B.A.

New and interesting species of fungi from Kursk Province.
Bot.mat.Otd.spor.rast. 12:271-274 Ja '59. (MIRA 12:12)
(Streletskoye Steppe Preserve--Deuteromycetes)
(Streletskoye Steppe Preserve--Pyrenomycetes)

TOMILIN, B. A.

Author: Tomilin, B. A.

Title: Various tools for high speed cutting of metal. (Instrumenty ulia skorostnogo
rezaniia metallov.) 231 p.

City: Moscow

Publisher:

State Scientific and Technical Printing House of Machine Con. Lit.

Date: 1950

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 3, No. , Page 538

LOPATIN, A.B., inzhener; TOMILIN, D.S., inzhener.

Testing secondary circuits on increased voltage. Elek. sta. 28 no.6:
51-52 Je '57. (MIRA 10:8)
(Electric insulators and insulation)

TOMIK, F.
SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: not given

Affiliation: Professor T.R. Niederland, MD. Bratislava, (III.interna klinika
lekarstvne fakultete Univ. Komenskeho v Bratislave, prednosta
profesor MUDr. T.R. Niederland) Bratislava.

Prosecution Unit, Okres Intitute of Public Health, Head F.
Tomik MD. (Prosektura OUNZ prednosta MUDr. F. Tomik,) Trnava.

Source: Prague, Ceskoslovenska Gastroenterologie a Vyziva, Vol 15,
No 6, Sept. 1961; pp 408- 413.

Data: Correlation of some Biochemical Findings with Morphological
Ones After Experimental Liver Damage with Tetrachlormethane.

VIDO, I.,
TOMIK, F.,
VIDO, J.,
DOBIS, J.,

GPO 981643

TOMILIN, G.

Supernumerary vice-president of the district committee. Voen. znan.
37 no.11:22-23 N '61. (MIRA 14:11)

1. Starshiy inspektor TSentral'nogo komiteta Dobrovol'nogo obshchestva
sodostviya armii, aviatsii i flotu.
(Perm Province--Military education)

TOMILIN, G.

The committee, an organ of collective leadership. Voen. znan.
38 no.6:10-11 Je '62. (MIRA 15:6)

1. Starshiy inspektor TSentral'nogo komiteta Dobrovol'nogo
obshchestva sodeystviya armii, aviatsii i flotu.
(Military education)

TOMILIN, G.

Voluntary instructor Viacheslav Maneshin. Kryl.rod.
13 no.1:16 Ja '62. (MIRA 15:2)
(Parachuting)

TOMILIN, G. (Saratov)

With students in Saratov. Za rul. 18 no.4:4 Ap '60. (MIRA 13:8)
(Saratov--Motorcycle racing)

TOMILIN, G.

Support from active members. Voen.znan. 32 no.10:19 0 '56.
(MLRA 10:2)

1. Starshiy inspektor TSentral'nogo komiteta Dobrovol'nogo
obshchestva armii, sodeystviya aviatsii i flotu SSSR.
(Military education)

TOMILIN, G.

In Crimean stanitsa. Voen. znan. 29 no.7:7 Jl '53. (MLHA 6:7)
(Military education)

TOMILIN, G.

~~In step with life. Voen.znan. 35 no.6:6-7 Je '59.~~
(MIRA 12:12)

1. Starshiy inspektor TSentral'nogo komiteta Dobrovol'-nogo obshchestva sodeystviya armii, aviatsii i flotu SSSR.
(Pskov--Military education)

TOMILIN, G.

Socialist competition in action. Voen.znan. 36 no.5:20
My '60. (MIRA 13:4)

1. Starshiy inspektor TSentral'nogo komiteta Dobrovol'nogo
obshchestva sodeystviya armii, aviacii i flotu.
(Military education)

TOMILIN, G.

Community, initiative, cost accounting. Voen. znan. 41 no.4:
29-30 Ap '65.
(MIE 12:3)

TOMILIN, G.

Shop workers' organization. Voen. znan. 39 no.2:24 F '63.
(MIRA 16:3)
1. Starshiy inspektor TSentral'nogo komiteta
Dobrovol'nogo obshchestva sodeystviya armii, aviatsii
i flotu.
(Military education)

TOMILIN, G.

Outside group of instructors for the District Committee of the
All-Union Volunteer Society for Assistance to the Army, Navy,
and Air Force. Voen. znan. 39 no.4:19-20 Ap '63.

(MIRA 16:6)

1. Starshiy inspektor TSentral'nogo komiteta Dobrovol'nogo
obshchestva sodeystviya armii, aviatsii i flotu.
(Military education)

TOMILIN, G.N. , V.P. MIASNIKOV and S.A. ZHURAVLEV.

Instrumenty dlja skorostnogo rezaniia metallov. Moskva, Mashgiz, 1950.
231 p. diagrs.

Bibliography: p. 229-(230)

Tools for high-speed metal cutting.

DLC: TJ1230.T65

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

VISHNITSKIY, Aleksandr Lazarevich, inzh.; TOMILIN, G.N., red.;
FREGER, D.P., red.izd-va; GVIERTS, V.I., tekhn. red.

[New developments in dimensional electric machining of
metals] Novoe v razmernoii elektroobrabotke metallov;
obzor. Leningrad, Leningr. dom nauchno-tekhn. propagandy,
1962. 92 p. (MIRA 16:11)

(Electric metal cutting)

TOMILIN, G. N., et al.,

"Tools for Rapid Cutting of Metals," Moscow 1950, 1. copy.

TOMILIN, G.N., inzhener, redaktor.

[Work of innovator and Stakhanovite toolmakers in Leningrad plants]
Iz opyta novatorov i stakhanovtsev instrumental'nykh Leningradskikh
zavodov. Leningrad, Gos. nauchno-tehn. izd-vo mashinostroit. lit-ry
[Leningradskoe otd-nie] 1951. 190 p. (MLRA 7:4)
(Machine-tool industry)

SHVARTSMAN, L.A.; TOMILIN, I.A. (Moskva).

Acid-base properties of metallurgic slags. Usp. khim., 26 no. 5:554-
567 May '57.
(MLRA 10:6)
(Slag)

TOMILIN, I.A.; SHVARTSMAN, L.A., doktor khim.nauk

Distribution of sulfur and phosphorus between iron and acid slag.
Probl. metalloved. i fiz. mat. no.4:595-603 '55. (MIRA 11:4)
(Iron--Metallurgy)

TCMILIN, I.A.; SAVOST'YANOVA, N.A.

Determining nitrogen solubility in chromium. Issl. po zharoproch. splav.
10:283-289 '63. (MIRA 17:2)

TOMILIN, I.A.; SAVOST'YANOVA, N.A.

Determination of the solubility of nitrogen in solid chromium.
Zav.lab. 28 no.8:959-961 '62. (MIRA 15:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii imeni I.P.Bardina.
(Chromium nitrides)

Tomilin I.A.

137-1958-2-2345

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 20 (USSR)

AUTHORS: Shvartsman, L.A., Tomilin, I.A., Travin, O.V., Popov, I.A.

TITLE: The Effect of the Oxides of Alkaline Earth Metals on the Distribution of Sulfur Between Iron and Ferruginous Slag (Vliyaniye okislov shchelochnozemel'nykh metallov na raspredeleniye sery mezhdu zhelezom i zhelezistym shlakom)

PERIODICAL: V sb.: Fiz.-khim. osnovy proiz-va stali. Moscow, AN SSSR, 1957, pp 304-318. Diskus., pp 332-334

ABSTRACT: The radioactive isotope S^{35} was used to study the dependence on the temperature of the distribution of S between Fe and a slag consisting of Fe oxides. The results are described by the equation

$$\log K_s = \left(\frac{3000}{T} \right) - 1.05 ,$$

wherein K_s is the coefficient of distribution of S, computed as the ratio of the counting rate from the slag to the counting rate from the metal, the counting rates being computed by the thick-layer method. The MgO content of the ferruginous slag, so long as it did not exceed 7.76%, exhibited no influence either on the K_s value

Card 1/2

137-1958-2-2345

The Effect of the Oxides of Alkaline-Earth Metals (cont.)

or on its dependence on temperature. With the maximum precision attainable in the experiment it was found that the CaO content, up to 12%, likewise did not alter the K_s value. For ferruginous slag containing more than 12% CaO it was learned that

$$\log K_s = \left(\frac{3700}{T} \right) - 1.26 .$$

This equation is correct for a CaO content up to 33%. The smallness of the effect exerted by the CaO on the K value is accounted for by the increase that occurred in the Fe_2O_3 concentration when CaO was introduced into the slag. For a slag containing 11.5 - 16.2% BaO, the equation obtained was $\log K_s = (3200/T) - 0.99$.

From the dependence on temperature of K_s a computation was made of the heat effect of the desulfurization of the Fe by a slag consisting only of Fe oxides + 14 kcal/gram.atom, with addition of more than 12% CaO + 17 kcal/gram.atom and 11-16% BaO + 14 kcal/gram.atom. The smallness of the heat effect and the smallness of the difference between them when one oxide was substituted for another are accounted for by the absence in ferruginous slags of any specific chemical reaction of oxides of Ca, Ba, and Mg with S.

I.T.

Card 2/2

1. Sulfur--Distribution
2. Iron--Applications
3. Slag--Applications
4. Alkaline earths--Oxidation--Effects

SHVARTSMAN, L.A., doktor khim.nauk; MALKIN, V.I., kand.tekhn.nauk;
TOMILIN, I.A., kand.tekhn.nauk

~~A. M. Morozov's article "Modern slag theory and the theory of
steel smelting processes."~~ Izv. vys. ucheb. zav.; chern. met.
no.7:63-65 J1 '58. (MIRA 11:10)
(Steel--Metallurgy)

TOMILIN, I.A., SHVARTSMAN, L.A.

"Acid-Basic Properties of Slags,"
lecture given at the Fourth Conference on Steelmaking, A.A. Baikov Institute of
Metallurgy, Moscow, July 1-6, 1957

L 2683-66 ENT(m)/EWP(w)/T/EWP(t)/EWP(b) IJP(c) JD/JN/JG

58

ACCESSION NR: AT5022899

UR/2776/65/000/043/0145/0150

52

B+1

AUTHOR: Gol'tsev, V. P.; Dzneladze, Zh. I.; Tomilin, I. A.

44,55 44,55 44,7

TITLE: Approximate calculation of the interaction between interstitial impurities and alloy elements during the sintering of molybdenum

44,55 7

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 43, 1965. Poroshkovaya metallurgiya (Powder metallurgy), 145-150

TOPIC TAGS: interstitial nitride, metal powder, molybdenum, sintering, carbide, oxide formation, isobaric potential

ABSTRACT: In the process of their sintering, pressed molybdenum briquets may absorb additional impurities in amounts depending on the sintering atmosphere employed. The most harmful impurities, sharply depressing the plastic properties of molybdenum, are oxygen, nitrogen, and carbon, which, have limited solubility in molybdenum in the solid state. When their content exceeds the solubility limit, these impurities are present in the form of compounds with molybdenum -- oxides,

27

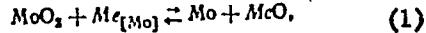
Card 1/3

L 2683-66

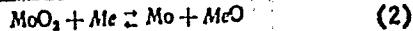
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ACCESSION NR: AT5022899

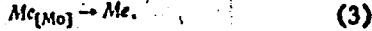
nitrides, and carbides, which usually are located at grain boundaries and cause a drastic embrittlement of molybdenum. According to the theory of brittle fracture (Cottrell, A. H., Bilby, R. A. Proc. Roy. Soc., 1949, 62-A, 49), the plasticity of metals with body-centered crystal lattice is a function of the content of the impurities forming interstitial solutions. Hence, it was of interest to establish the amount of impurities remaining in the solid solution of Mo on alloying it with elements forming firm oxides, nitrides, and carbides. So the authors describe a method of approximate calculation of the refining of molybdenum to remove oxygen and present an evaluation of its concentration in the alloy for a given content of alloy element and temperature. It involves determining the amounts of deoxidizing elements required for the complete reduction of MoO_2 in the molybdenum. The interaction reaction is



which may be represented in the form of two reactions:



and



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Each of these three reactions has its own corresponding values of variation in the isobaric potential of the formation of the oxides of Mo and of the deoxidizing metal. It is shown that the reaction of the reduction of MoO_2 with Zr, V, Ti, Hf, La, and Y is thermodynamically possible over a broad range of temperatures from 298 to 2000°K and proceeds to the end in the presence of extremely low amounts (0.01% - 0.02%) of the deoxidizing metal. Curves of the equilibrium constant of the oxygen dissolved in the solid solution of Mo are plotted as a function of the amount of the added deoxidizing metal and temperature. This method is also applicable to calculating the conditions for refining molybdenum to remove nitrogen and carbon. Orig. art. has: 2 figures, 1 table, 18 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, MR

NO REF SOV: 001

OTHER: 005

gases in metal (5)

Card

3/3

PETROVA, Ye.F.; TOMILIN, I.A.

Effect of oxygen on the activity of carbon in austenite.
Izv. AN SSSR. Neorg. mat. 1 no.10:1732-1736 O '65.
(MIRA 18:12)
1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii imeni I.P. Bardina. Submitted July 5, 1965.

SHVARTSMAN, L.A.; TOMILIN, I.A.

"Use of radioactive isotopes in metallurgy." Reviewed by
L.A. Shvartsman, I.A. Tomilin. Zhur.fiz.khim. 31 no.3:740-742
Mr '57. (MLRA 10:7)
(Radioisotopes--Industrial applications) (Metallurgy)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756220004-4

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756220004-4"

SHVARTSMAN, L.A., doktor khim.nauk; TOMILIN, I.A.; TRAVIN, O.V.; POPOV, I.A.
kand.tekhn.nauk

Effect of alkaline earths on the distribution of sulfur between iron
and iron slag. Probl. metalloved. i fiz. met. no.4:577-594 '55.
(Alkaline earths) (Iron--Metallurgy) (MIRA 11:4)
(Sulfur)

TOVILIN, I. A.

TOVILIN, I. A.: "Equilibrium in the distribution of sulfur and phosphorus between iron and acid slag." Min Higher Education USSR. Moscow Order of Labor Red Banner Inst imeni I.V. Stalin. Moscow, 1956. (Dissertations for the Degree of Candidate in Technical Sciences.)

SO: Kharkovs'kaya letopis' No. 22, 1956

ACCESSION NR: AT4013966

S/2659/63/010/000/0283/0289

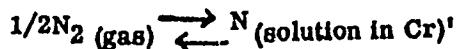
AUTHOR: Tomilin, I. A.; Savost'yanova, N. A.

TITLE: Determination of the solubility of nitrogen in chromium

SOURCE: AN SSSR. Institut metallurgii. Issledovaniya po zharoprovchnym splavam, v. 10, 1963, 283-289

TOPIC TAGS: chromium, nitrogen, nitrogen solubility, solubility, chromium alloy

ABSTRACT: The detailed investigation of chromium-nitrogen alloys was started not long ago, when chromium and its alloys began to be used as structural materials at high temperatures. Numerous investigations led to the conclusion that the brittleness of chromium at low temperatures is caused by the presence of impurities, especially carbon or nitrogen. Nitrogen, present as a solid solution, has a strong influence on the mechanical properties of chromium, a property which has now been used as an expedient way of determining its solubility in solid chromium. The solubility of nitrogen in chromium is determined by an investigation of the following equilibrium reactions.



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ACCESSION NR: AT4013966

at different pressures and temperatures. Then, these equations were used to determine the thermodynamic characteristics of solutions of nitrogen in chromium and of chromium nitride (Cr_2N). Several graphs illustrate the findings. The dependence of the nitrogen concentration in chromium on the pressure was determined, and it was shown that solid solutions of nitrogen in chromium are ideal dilute solutions. Figure 1 of the Enclosure shows the results of the determination of the solubility of nitrogen in chromium in relation to the pressure at temperatures of 1250 and 1340C. Figure 2 of the Enclosure shows the solubility of nitrogen in solid chromium in relation to temperature. Finally, the dependence of the dissociation pressure of chromium nitride on the temperature is shown in Figure 3 of the Enclosure. Orig. art. has: 5 figures and 14 formulas.

ASSOCIATION: Institut metallurgii AN SSSR (Institute of Metallurgy AN SSSR)

SUBMITTED: 00

DATE ACQ: 27Feb64

ENCL: 03

SUB CODE: MM

NO REF SOV: 004

OTHER: 018

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2/62

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APPROVED FOR RELEASE: 04/03/2001

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TOMILIN, I.A.

Thermodynamic properties of austenite as related to its structure.
Dokl. AN SSSR 162 no.2:384-387 My '65. (MIRA 18:5)

1. Institut metallovedeniya i fiziki metallov TSentral'nogo nauchno-
issledovatel'skogo instituta chernoy metallurgii.

TOMILIN, I.A. (Moskva); SHVARTSMAN, L.A. (Moskva).

Distribution of sulfur between iron and iron slags. Izv. AN
SSSR. Otd. tekh. nauk no. 10:122-125 0 '56. (MLRA 10:1)
(Iron sulfides)

AUTHORS: Tomilin, I.A., Khokhlov, S.F. and Shvartsman, L.A. (Moscow).
TITLE: Influence of admixtures of calcium and sodium oxides on
the distribution of the sulphur between the iron and the
acidic slag. (Vliyanie dobavok okislov kal'tsiya i
natriya na raspredeleniye sery mezhdu zhelezom i kislym
shlakom).
PERIODICAL: "Izv. Ak. Nauk, Otd. Tekh. Nauk" (Bulletin of the Ac. Sc.,
Technical Sciences Section), 1957, No.4, pp.152-156 (USSR).
ABSTRACT: In a previous paper (Izv. Ak. Nauk, Otd. Tekh. Nauk, 1953,
No.12) the authors studied the distribution of sulphur
between the iron and the acidic slag consisting of a melt
of iron oxides which were saturated with silica. In this
paper the results are described of studies of the influen-
ce on this equilibrium of additions of calcium and sodium
oxides to the acidic slag. The used technique was des-
cribed earlier (1) and (2). The slag was first smelted
and the mixture for smelting was prepared from chemically
pure iron oxide and quartz powder to which a certain quan-
tity of calcium and sodium carbonate were added. The in-
vestigations were carried out by means of the radio-active
isotope S35. The curves of self-absorption were also
measured for a slag consisting of iron oxides and a slag
of a complex composition containing about 20% Na_2O , about
30% iron oxides and about 50% SiO_2 ; the results of these
measurements are given in Fig.1. The results of the tests

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Influence of admixtures of calcium and sodium oxides on the distribution of the sulphur between the iron and the acidic slag. (Cont.).

24.4-26/34

in which the equilibrium was studied are given in the Tables 2 and 3 and in the graphs 2 and 3. The heat of transition of the sulphur from the iron into the slag of the system $FeO-SiO_2$ which is saturated with silica, decreases if calcium oxide is added to the slag. For a calcium concentration of about 20% the reaction heat amounts to about 13 000 cal/g-atom, which almost corresponds to the heat of transfer of the sulphur from the iron into the ferrous slag. In addition, an increase in the CaO concentration in the slag brings about some increase in the entropy of the FeS . The overall result of these processes is a decrease of the sulphur distribution coefficients compared to the acidic slag not containing CaO . Introduction of Na_2O into the investigated slag causes the same phenomena to a still more intensive degree. These phenomena are attributed to the specific interaction of the ions in the acidic melt. There are 3 figures, 3 tables, 8 references, 7 of which are Russian.

Card 2/2

ASSOCIATION: Institute of Metallography and Metal Physics, TsNIIChM.

SUBMITTED: July 17, 1956.

AVAILABLE:

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TOMILIN, I.A.

TOMILIN, I.A. (Moskva); KHOKHLOV, S.F. (Moskva); SHVARTSMAN, L.A. (Moskva).

Effect of calcium and sodium oxide admixtures on sulfur distribution
in iron and in acid slag. Izv. AN SSSR. Otd. tekhn. nauk no. 4:152-156
(MIRA 10:6)
Ap '57.

1. Institut metallovedeniya i fiziki metallov Tsentral'nogo nauchno-
issledovatel'skogo instituta chernoy metallurgii.
(Slag) (Iron alloys--Metallurgy)